From: Mccray, Sean-Ryan CTR (USA) [sean-ryan.mccray.ctr@navy.mil]
Sent: Wednesday, May 5, 2021 11:14 AM
To: Liscio, Matthew P CIV USN NAVSEA DET RASO VA (USA) [matthew.liscio@navy.mil]
CC: Stoick, Paul T CIV USN NAVFAC SW SAN CA (USA) [paul.stoick@navy.mil]
Subject: FW: Hunters Point Bldg 211/253 - Trench Survey Unit Package #2
Attachments: Bldg 211-253 Trench Survey Unit #2.pdf; Trench area 12212020.xlsx

Follow Up Flag: Follow up
Flag Status: Flagged

Matt,

Per our discussion this morning regarding FCR0003 and the Parcel C Buidling 253 / 211 Data Package, Brett has provided the highlighted information in the email below.

An updated data package is pending, I'll notify you once I receive it.

With respect to the sample locations and maps / figures - attached are the working figures and spreadsheets that were used in the field for sample collection, with the added description below.

1. The number of samples for each trench are determined per total area as the figures and table are shown
2. The trench is divided systematically/equally into segments in the field. For example, trench #1 is allocated with 8 samples, then the trench is divided into 8 segments.
3. Sample location (wall or floor) is randomly selected within that segment.

Does the added description and figures suffice? Or are you looking for something more intricate / representative of the systematic sampling?

Thanks!

SR

From: Womack, Brett <BWomack@GilbaneCo.com>
Sent: Wednesday, May 5, 2021 11:06 AM
To: Mccray, Sean-Ryan CTR (USA) <sean-ryan.mccray.ctr@navy.mil>
Subject: [Non-DoD Source] RE: Hunters Point Bldg 211/253 - Trench Survey Unit Package #2

Hi Sean-Ryan-

We're having the lab revise and resubmit the SDGs and will include in a resubmitted data package when they arrive. Crossed wires. This shouldn't be an issue in the future because the lab will be using a heavier epoxy method blank.

With respect to the sample locations, attached are the working figure and spreadsheet that were used in the field for sample collection, with the added description below.

1. The number of samples for each trench are determined per total area as the figures and table are shown
2. The trench is divided systematically/equally into segments in the field. For example, trench #1 is allocated with 8 samples, then the trench is divided into 8 segments.
3. Sample location (wall or floor) is randomly selected within that segment.

Hope this helps, thanks.

Brett

From: Mccray, Sean-Ryan CTR (USA) <sean-ryan.mccray.ctr@navy.mil>
Sent: Wednesday, May 5, 2021 9:03 AM
To: Womack, Brett <BWomack@GilbaneCo.com>
Subject: RE: Hunters Point Bldg 211/253 - Trench Survey Unit Package #2

Brett – Matt and I discussed and I've got some follow up for you:

1. If you look at page 4 (maps) and scroll through you can see individual trenches with sample locations. But they look like dots randomly placed in there, so you can't see the systematic nature of it. I can't think of a way to "show" the systematic nature off the top of my head, but GIlbane had to have some method of determining the systematic locations – can we show this in the maps? Essentially, I understand that Gilbane is saying you did it systematically, and the work plan shows that, but is there a way to show us that you did on the map? Ie. the map could be more representative in my opinion.

2. Yes, FCR was approved, but I had thought the lab was going to start dividing the mass of the source per the technical write-up. Gilbane is showing the technical data **results** show the correct mass, but Page 358 Radium Method Blank MDC is 71 picocuries per gram, whereas in the SAP Radium is .8 and cesium is .08. It goes back to the whole thing where we aren't subtracting the mass for the method blank – I thought this was the intent of technical writeup? I thought the lab was going to go back and not re-count but re-analyze everything? Ie have the software run it again with new / adjusted mass. According to RASO, If this happens, we'll need to see the new package with updated MDC values and he can quickly check off and we can move along with backfill.

Please advise at your earliest convenience.

Thanks!

SR

From: Womack, Brett <BWomack@GilbaneCo.com>
Sent: Tuesday, May 4, 2021 11:42 AM
To: Liscio, Matthew P CIV USN NAVSEA DET RASO VA (USA) <matthew.liscio@navy.mil>; Mccray, Sean-

Ryan CTR (USA) <sean-ryan.mccray.ctr@navy.mil>
Cc: Cooper, Jerry <JCooper@GilbaneCo.com>; Chris Bryson <chris.bryson@envirachem.com>; Ng, Henry H. <HNg@GilbaneCo.com>; Carlyon Peyton, Kristen <KCarlyon@GilbaneCo.com>; Dawson, Evelyn H. <EDawson@GilbaneCo.com>
Subject: [Non-DoD Source] RE: Hunters Point Bldg 211/253 - Trench Survey Unit Package #2

Hi Matt-

Thanks for the followup.

For the systematic samples, the total volume of square meters of trenches in the survey unit was calculated. Based on the total square meters, the number of samples representative for each individual trench was derived. Once the number of random/systematic samples per trench was determined, a random starting location was selected and then the balance of the samples (if more than one) within that trench were systematically spaced relative to the random starting point. For biased samples and removal actions, the highest radiological survey readings per trench were pinpointed, and based on that data samples were collected and remediations performed where applicable.

With respect to the MDC data, the recent FCR has been approved which means that the method blank is being evaluated using the following equation, in which case it passes:

$$|Z_{Blank}| \leq 3, \text{ where } Z_{Blank} = \frac{\text{activity}}{\text{combined standard uncertainty (CSU)}}$$

Thanks

Brett

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From: Liscio, Matthew P CIV USN NAVSEA DET RASO VA (USA) <matthew.liscio@navy.mil>
Sent: Tuesday, May 4, 2021 4:38 AM
To: Womack, Brett <BWomack@GilbaneCo.com>; Mccray, Sean-Ryan CTR (USA) <sean-ryan.mccray.ctr@navy.mil>
Subject: RE: Hunters Point Bldg 211/253 - Trench Survey Unit Package #2

Good morning,
I just finished looking through the data package and I have a few questions.

It's hard to tell from the maps what the rational was for the sampling locations. The work plan has them being systematic based off of a random start location but with the maps being broken apart it's hard to tell if they were or not. Is there a way to show this?

Looking through the lab data, there's the same thing going on with the method blank as previously discussed. Will this be updated?

Thanks,
-Matt

From: Womack, Brett <BWomack@GilbaneCo.com>
Sent: Tuesday, April 20, 2021 10:44 AM
To: Liscio, Matthew P CIV USN NAVSEA DET RASO VA (USA) <matthew.liscio@navy.mil>; Mccray, Sean-Ryan CTR (USA) <sean-ryan.mccray.ctr@navy.mil>
Cc: Cooper, Jerry <JCooper@GilbaneCo.com>; Chris Bryson <chris.bryson@envirachem.com>
Subject: [Non-DoD Source] Hunters Point Bldg 211/253 - Trench Survey Unit Package #2

Hello-

I will follow this email with another that includes a link to download the second Trench Survey Unit Package for Buildings 211/253 at Hunters Point – please let me know if you don't see it. This link will expire in 30 days. Clicking the link will take you to a password prompt. The password is:

Password: (b) (6) [redacted]

A preview of the document will load in your browser, with print/download buttons in the upper left corner of the window. Depending on the internet connection, it may take a few minutes to load the entire document.

thanks

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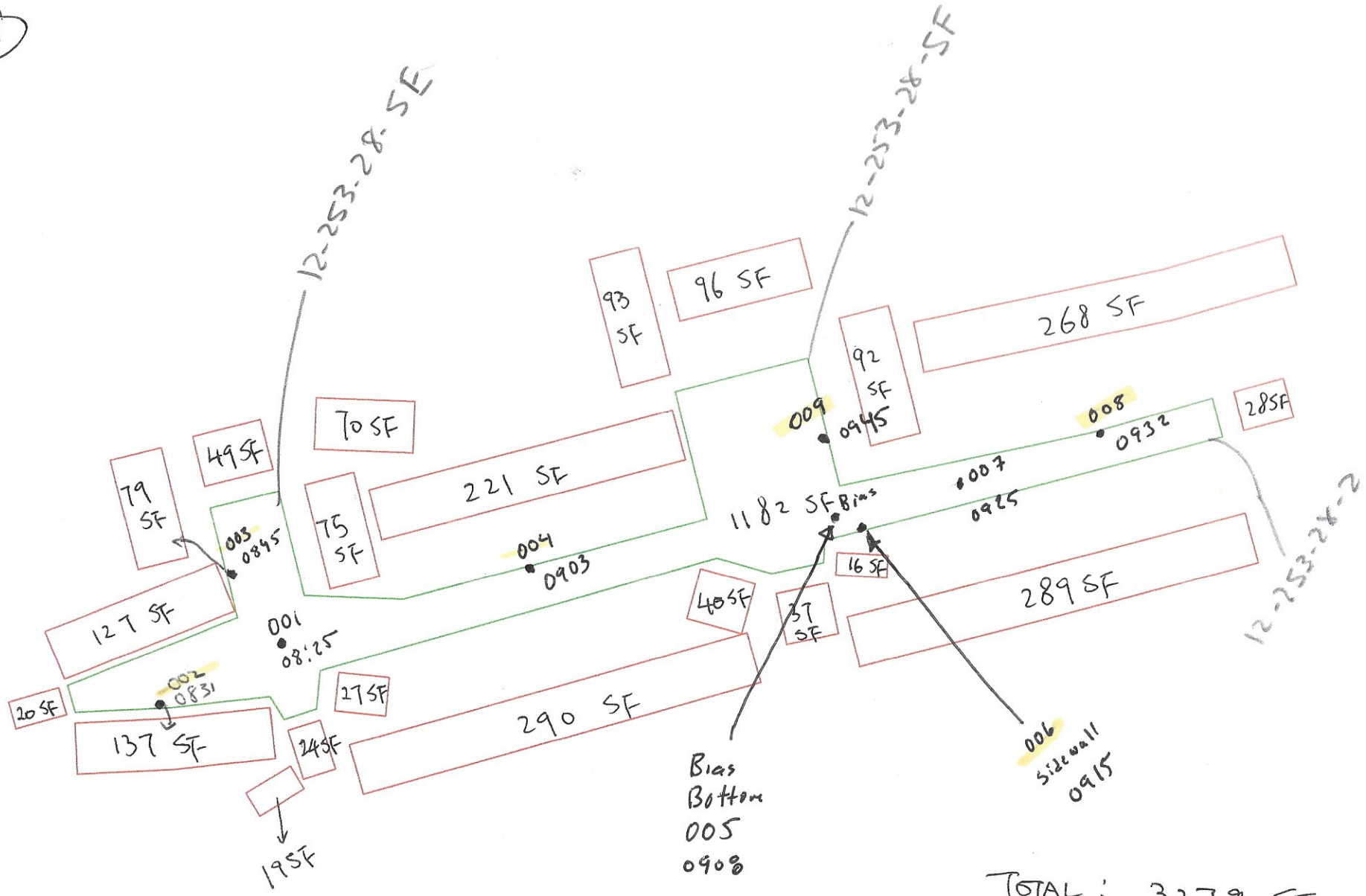
Number	Area	Percentage	Min Sample needed per area	Total Sample Collected (Incl. bias)	Total Sample collected (incl. bias + step out)
1	3279	44.2%	8.8	9	13
2	3388	45.7%	9.1	12	15
3	496	6.7%	1.3	2	2
4	164	2.2%	0.4	1	1
5	94	1.3%	0.3	1	1
Total	**7421**	**100%**	**20**	**25**	**32**

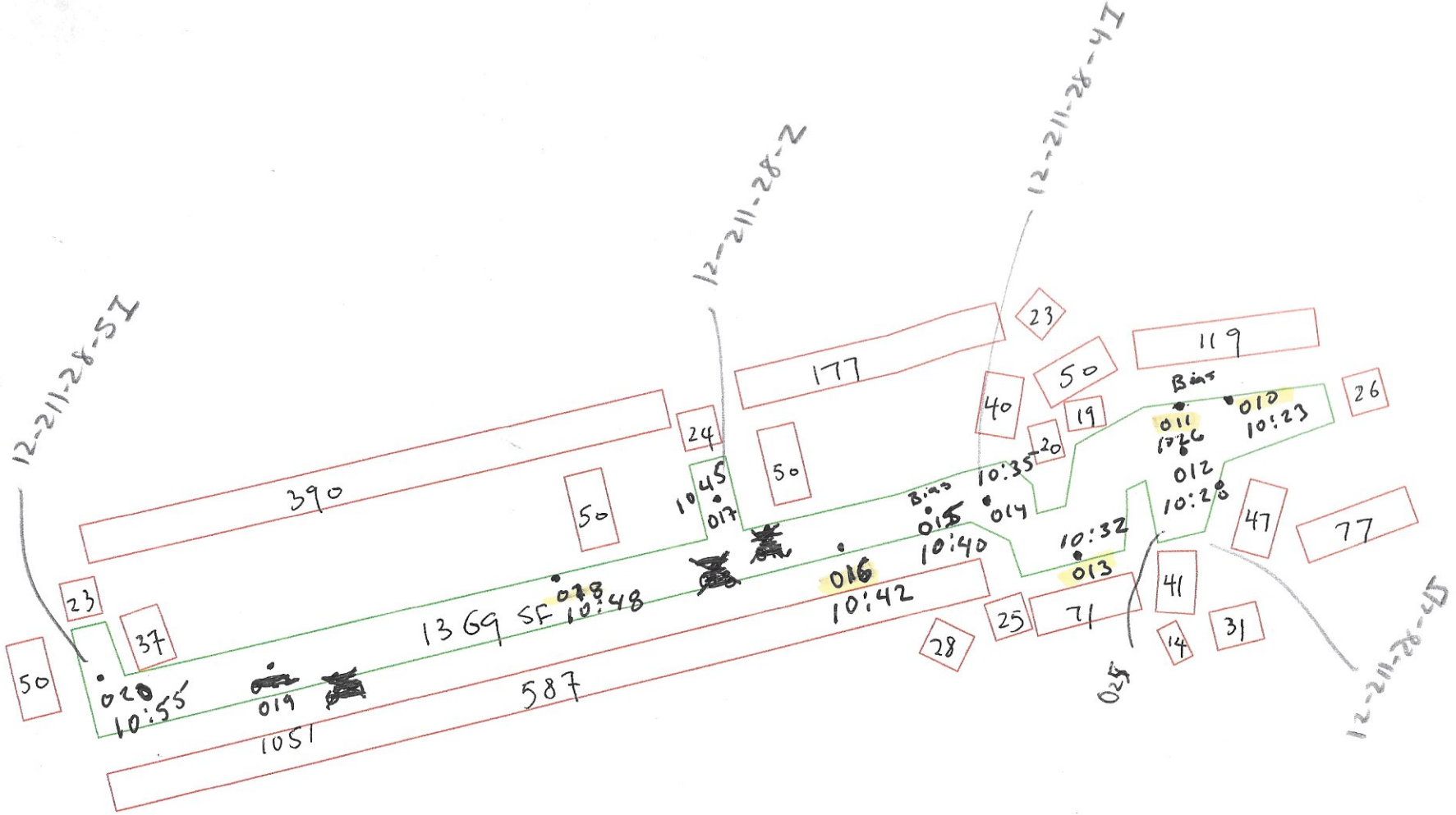
(1)



TOTAL: 3279 SF

AVG Depth: 6 FT

2



TOTAL 3388 SF

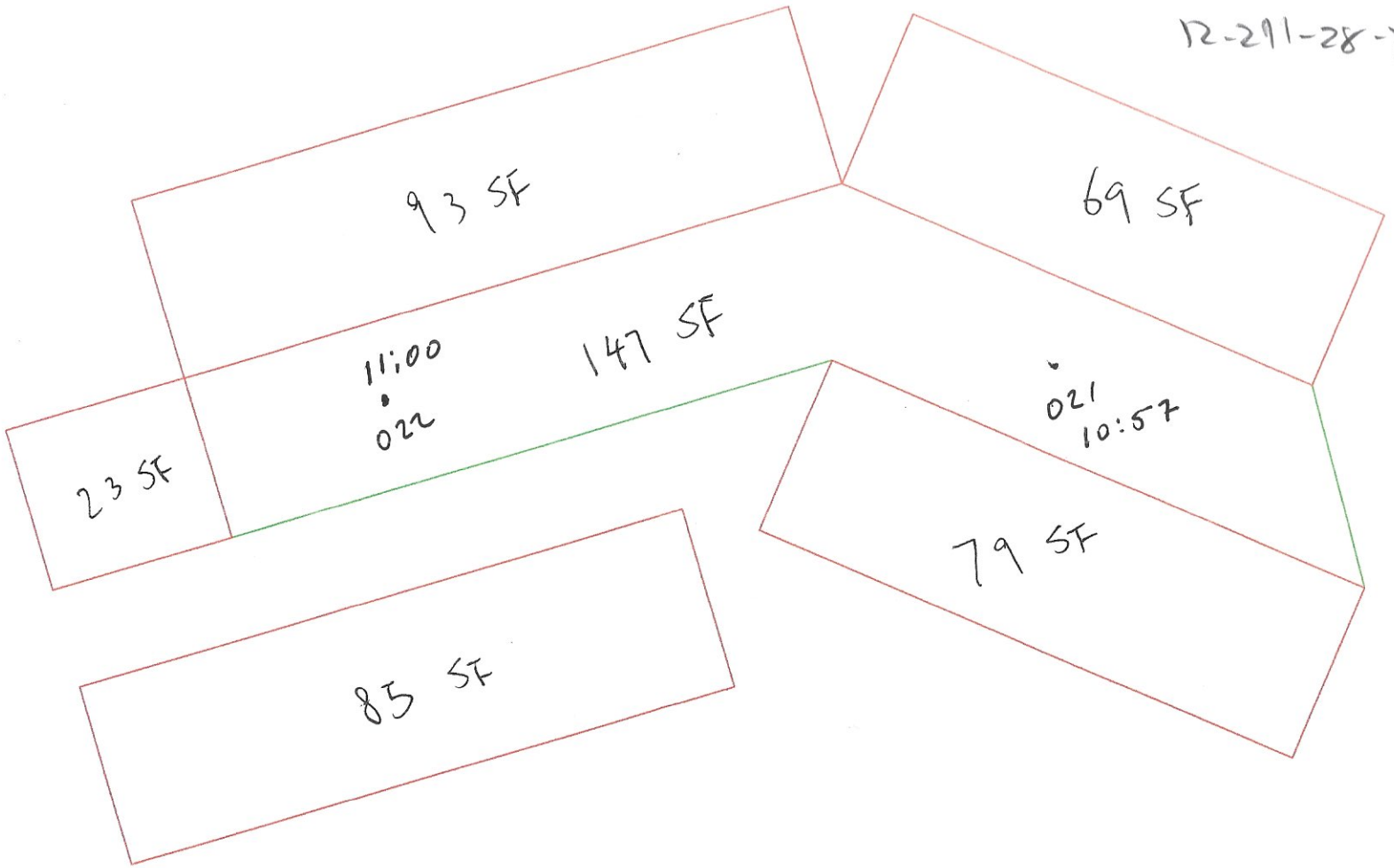
AVG DEPTH : 5 FT

(3)

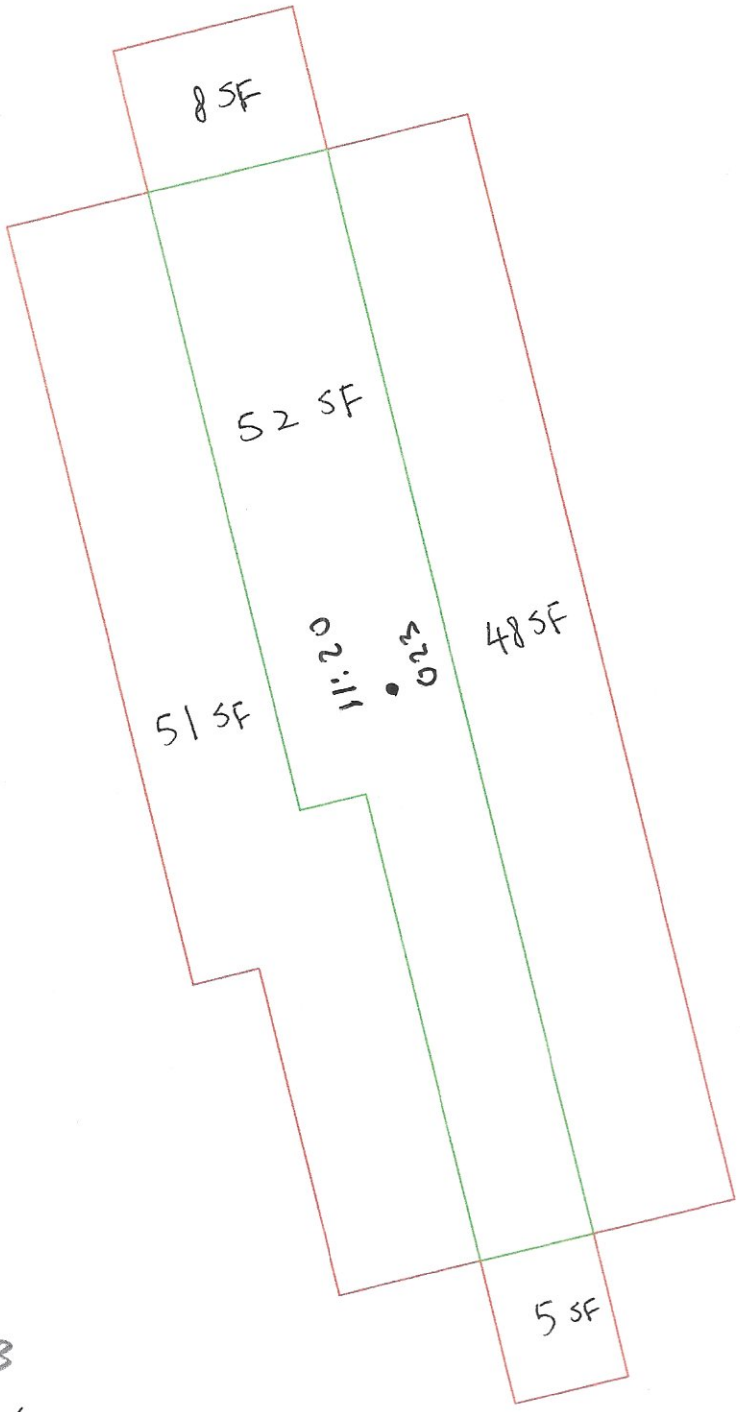
TOTAL : 496 SF

AVG DEPTH : 5 FT

12-291-28-X



4

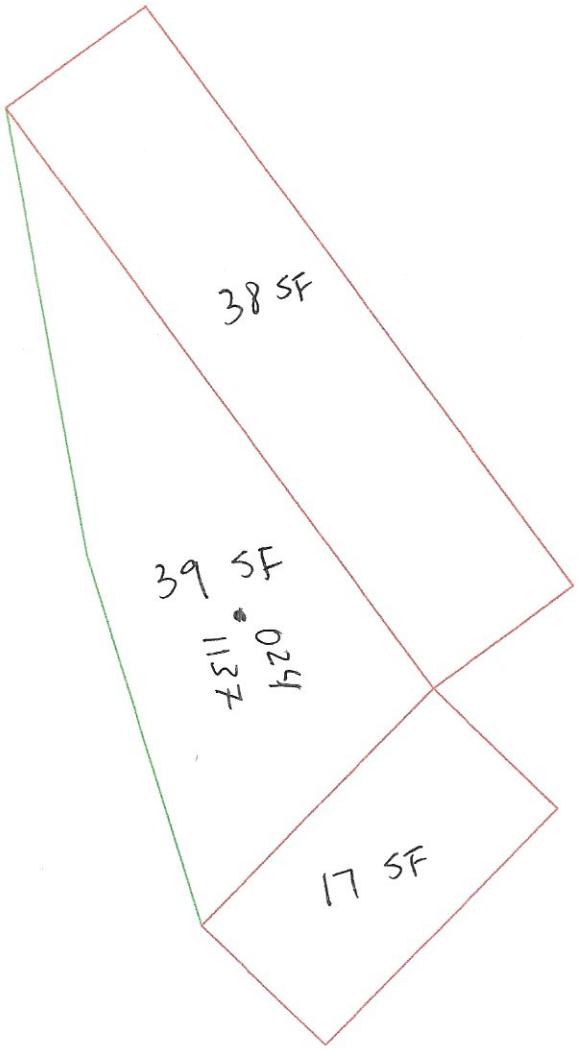


12-211-28-5B

TOTAL : 164 SF

AVG DEPTH : 2-5 FT

(5)



12-211-28-SC-1

TOTAL: 94 SF

AVG DEPTH: 3 FT

Number	Area	Percentage	Samples
1	3279	44%	8.8
2	3388	46%	9.1
3	496	7%	1.3
4	164	2%	0.4
5	94	1%	0.3
Total Area	**7421**		

Total Samples
20